



## DEPARTMENT OF TRANSPORTATION SERVICES

Melvin N. Kaku, Director

### POWERS, DUTIES, AND FUNCTIONS

The Department of Transportation Services is responsible for the efficient, safe, and expeditious movement of traffic on city streets and roadways and for planning and coordinating public mass transportation systems and facilities. The City Charter ascribes the following responsibilities to the department:

- Plan, design, operate and maintain transportation systems to meet public needs.
- Locate, select, install and maintain traffic control facilities and devices.
- Approve plans and specifications for the construction, reconstruction and widening of public streets and roads.
- Provide educational programs to promote traffic safety.
- Promulgate rules and regulations for the use of streets and roadways in accordance with standards established by law.

### TRANSPORTATION COMMISSION

The Transportation Commission was established by a charter amendment proposed under Resolution 95-205, CD1, and approved at the November 1996 General Election. The Transportation Commission consists of seven members. The powers, duties, and functions of the Transportation Commission are to:

- Evaluate at least annually the performance of the Director of Transportation Services.
- Review and make recommendations on the annual budget prepared by the Director of Transportation Services.
- Review and make recommendations on rules concerning the administration and operation of the department of transportation services.
- Receive, review, and make recommendations on complaints regarding the systems, programs, and facilities under the Department of Transportation Services.
- Recommend changes to the public transit fare structure when deemed necessary and appropriate.
- Review and make recommendations on the performance of public transit and other transportation system contractors under the jurisdiction of the Department of Transportation Services.
- Submit an annual report to the mayor and council.

The commission shall make the recommendations authorized under this subsection to the director of transportation services, mayor, and council.

### TRANSPORTATION PLANNING DIVISION

The Transportation Planning Division performs the overall citywide transportation planning and programming work required under federal, state, and local laws. The division administers and manages transportation planning and capital improvement projects. The division applies for and administers federal funds for the city's highway and transit projects, and monitors compliance with federal laws, rules, regulations and grant program requirements, including the Disadvantaged Business Enterprise (DBE) Program. The Transportation Planning Division is responsible for compliance with transportation-related city planning requirements. The division supports the Department of Transportation Services' director in the federally required statewide and metropolitan transportation planning processes. The division develops and monitors the departmental Capital Improvement Program (CIP) and projects. The division develops, administers and manages data collection studies, performance measures and criteria for the management systems; ensures compliance with current federal regulations for the Congestion Management System with regard to activities involved with performing, developing and managing data collection, and identification and evaluation of operational mitigation strategies. The division manages and administers major transit and roadway projects.

### Accomplishments:

- Completed the Waikiki Livable Community Project that is funded by a special federal grant program, Transportation and Community and System Preservation Pilot Program (TCSP). Completed final evaluation and submitted evaluation to FHWA. Project closeout being prepared.
- Administered the contract for professional services to support the State Department of Transportation in its preparation of environmental documents for the North-South Road Project.

- Waipio Point Access Road Study. Completed draft and final environmental assessment study. Received state and federal (FHWA) approval for categorical exclusion of environmental documentation requirements. Project transferred to Traffic Engineering Division for design.
- Completed final engineering design work on Dillingham Boulevard Bus Pullouts and related improvements.
- Completed planning work on the Kaimuki Business District Parking Master Plan.
- Review and comment on the Department of Planning and Permitting's "Kaneohe Traffic Circulation Study."
- Awarded construction contract for intersection improvements at the Waimano Home Road/Kuala Street/Moanalua Road intersection. This improvement is required by the City as part of the land purchase agreement for the Manana Walmart development.
- Kamokila Boulevard Extension Project. Completed draft environmental assessment (DEA). Received and responded to comments during DEA process. Prepared and initiated negotiations for draft Memorandum of Agreement (MOA) to fulfill Section 106 requirements. Preparing final environmental assessment. Executed design contract for this project.
- Issued RFP for Demonstration Ferry Project.
- Makakilo Drive Extension Project. Completed Project Management Plan and alternatives analysis for project. Prepared and submitted necessary documentation and forms to seek release of state funding for project. Coordinated project planning with State Department of Transportation.
- Completed professional service procurements for major transportation projects, including a rail and ferry planning studies.
- Prepared four applications for federal transit assistance for \$33.46 million.
- Administered and managed 13 active federal transit grants, which included the preparation of federal quarterly reports for each grant.
- Participated in the Federal Transit Administration's FY 2006 Triennial Review.
- Monitored and reported the status of active departmental and Department of Design and Construction (DDC)-delegated CIP projects, Fiscal Years 1999-2006.
- Prepared the departmental Fiscal Year 2006 CIP budget comprised of traffic, highways, and streets improvements and mass transit projects.
- Coordinated the development of the City's input to the Fiscal Years 2006-2008 Oahu Transportation Program.
- Coordinated the programming and obligation of approximately \$21,844,000 in FHWA funding for various city projects.
- Coordinated the development of the Fiscal Year 2006 Overall DBE goal for the City's FTA-assisted projects; submitted quarterly reports to FTA; and submitted periodic reports to the Department of Transportation's DBE Coordinator.
- Coordinated the City's efforts to receive federal funding authorizations in the new federal transportation legislations for the various transportation projects for the City.
- Participation in OMPO's 2030 Oahu Regional Transportation Plan: Reviewed baseline data, draft model results, draft system performance analysis of strategic plan packages report and constrained draft/final plan. Completed participation in project with final acceptance of plan in April 2006.
- Administered the City's projects identified in the Oahu Metropolitan Planning Organization's (OMPO's) Transportation Improvement Program (TIP) for Fiscal Years 2006-2008 as required under U.S. Department of Transportation's statutes and regulations to be eligible for approximately \$54.7 million in federal highway funds and \$134.5 million in federal transit funds.
- Coordinated the preparation of amendments to the Fiscal Years 2006-2008 Oahu Transportation Improvement Program.
- Reviewed and commented on draft Ewa Transportation Impact Fees Memorandum of Agreement between the City and State on collection and distribution of fees.
- Continued to provide technical and administrative assistance to the Oahu Metropolitan Planning Organization for the Model Development work element.
- Served as a chairman of the Technical Advisory Committee of the Oahu Metropolitan Planning Organization.
- Participated and assisted the State Transportation Planning Office in the development of the Statewide Transportation Improvement Program, which is the statewide allocation program for federal highway funding.
- Reviewed, coordinated and processed approximately 47 environmental impact and assessment documents for regulatory compliance.
- Reviewed, coordinated and processed approximately 25 Development Plan revision/amendment requests.
- Completed 341 traffic survey reports (traffic volume counts, speed classification counts, pedestrian counts, etc.)

using the Traffic Request Log to prioritize and monitor outstanding traffic survey requests.

- Responded to 565 traffic data inquiries.
- Provided input to yearly update of Highway Performance Monitoring System by transmitting 54 maps to SDOT.
- Updated 54 computerized island-wide maps for traffic count data by adding traffic counts taken during fiscal year 2005.
- Processed 1,082 work requests.

## **TRAFFIC ENGINEERING DIVISION**

This division conducts studies and analysis to: determine and ensure the safe, efficient, and effective operation of the city's streets, roadways, and appurtenant facilities; coordinate and implement engineering programs and projects to improve traffic flow and safety; prepare and process legal schedules in accordance with the Traffic Code; administers the City's bikeway, pedestrian, and traffic safety and education programs, and administers the School Traffic Safety Committee.

### **Urban Honolulu Region Branch**

This branch provides traffic engineering and design support for the safe and efficient operation of streets and intersections and recommends and implements standards for signs, pavement markings, and warning devices for the Urban Honolulu Region, the area generally extending from Makapuu, Ewa to Liliha Street, south of the Koolau Mountain range. The branch also receives, reviews, and resolves queries from the public regarding the operation of vehicle and bicycle traffic on streets and facilities; conducts data collection studies for input into management systems; conducts corner sight distance studies; and establishes and administers the Traffic Code Ordinance requirements to maintain efficient and safe vehicle and bicycle facilities. In addition, the branch analyzes and determines warrants for traffic signals.

### **Accomplishments:**

- Completed 574 work orders, including requests and complaints from individuals, public, and private organizations, businesses, and government agencies.
- Conducted 84 maintenance investigations to insure high quality of traffic control devices.

### **Completed Work Orders - Highlights:**

- Performed evaluations for left turn phases at various locations, such as, 10th/Waialae Avenues, Ward Avenue/Auahi Street, Ward Avenue/Kinau Street, Punahou/Nehoa streets, University Avenue/Metcalf Street and Keahole Street/Hawaii Kai Shopping Center driveway.
- Conducted warrant evaluations for all-way stops at various intersections, such as, Kilauea/7<sup>th</sup> and 9<sup>th</sup> Avenues, Ainakoa Avenue/Malia Street, Pahoa/19th Avenues, Campbell Avenue/George and Hayden Streets, Rycroft/Birch and Cedar Streets, Elm/Birch Streets.
- Conducted warrant evaluations for traffic signals at various locations, such as, Monsarrat Avenue/Diamond Head Circle, 4<sup>th</sup>/Harding Avenues, 2<sup>nd</sup>/Waialae Avenues, Iolani Avenue/Pele Street, Nuuanu Avenue/Pauahi Street, Liliha/Elena Streets, Kuakini/Sereno Streets.
- Assisted the Transportation Planning Division by providing review comments on Environmental Impact Statements, Environmental Assessments, etc. on various projects, such as, Waikiki Beachwalk, Kalakaua Avenue Retail Project, Royal Hawaiian Shopping Center Revitalization, Kakaako Makai Master Plan Amendment, Tustitala Vista, St. Louis Heights Sewer System Improvements, Ala Wai Gateway Condominium, Anuenue Radio Towers and Facilities, East Honolulu Police Station, Royal Kai Lani, Maunalaha Homesites Water System Improvements, Kapiolani Area Revised Sewer System, McCully Fire Station.
- Assisted the Department of Design and Construction in providing file signs and markings drawings for various resurfacing/rehabilitation of streets projects.
- Assisted the Department of Planning and Permitting in providing review comments on construction traffic controls for various projects.
- Assisted the Department of Environmental Services in restricting parking at various locations to facilitate refuse pick up.
- Assisted the Department of Facility Maintenance in restricting parking on the mauka side of a portion of Ala Wai Boulevard for street sweeping purposes.
- Provided comments to the Department of Budget and Fiscal Services regarding the need for roadway purposes of various City-owned properties considered for disposition.
- Installed marked crosswalks at Young/Kaheka Street, South/Auahi Street, Woodlawn Drive near Manoa Shopping Center.
- Installed School Crossing signage on Pensacola Street between King Street and Kapiolani Boulevard.
- Extended tow away hours on School, King, and Kuakini streets.

- Installed a Roadway Database program on the Region's computers to allow access to the Department of Facility Maintenance's street database.
- Modified the morning contraflow coning on Kapiolani Boulevard at Ward Avenue.
- Assisted the Department of Design and Construction in updating and correcting the signs and markings for the Maunakea Sidewalk Improvement Project.
- Assisted the Honolulu Police Department in their enforcement efforts through the installation of speed limit signs on Kalakaua Avenue.
- Improved the intersection striping on Kalia Road at the Hilton Hawaiian Village driveway.
- Implemented school traffic control improvements at various locations, such as, Koko Head Elementary School, Sacred Hearts Academy, Punahou School, Roosevelt High School, Lililualokalani Elementary School, Hawaii School for the Deaf and Blind, Jefferson Elementary School, and Washington Middle School.

#### **Assisted the Corporation Counsel:**

- Kaina v. Nakao, #04-1-1986-10(SSM)
- Emley v. Seberg, #02-1-1032-04
- Gauze v. USSAA Insurance Agency Inc., #04-1-1939-10(VSM)
- Hughes v. Zucker, #03-1-2139-10

#### **Reviewed:**

- Waialae Water System Improvements, Part II
- Ala Wai Boulevard Improvements, FY 2004
- Rehabilitation of Streets at Various Locations
- Punahou Regency
- Lunalilo Home Road Sewer Rehabilitation 2005
- Rehabilitation of Streets, Unit 41
- Rehabilitation of Streets, Unit 37
- Kakaako I.D. 11
- Lusitana Street On-Ramp Improvements
- Preventative Maintenance of Various Streets, 2004
- University Water System Improvements, Part II
- Punchbowl Street Improvements, Phase 2
- East Oahu Transmission 46kv Project
- Kapuni Street Closure
- Rehabilitation of Streets, Unit 35
- Rehabilitation of Streets, Unit 32
- Rehabilitation of Streets, Unit 9

#### **Outlying Oahu Regional Branch**

This branch provides traffic engineering and design support for the safe and efficient operation of streets and intersections and recommends and implements standards for signs, pavement markings, and warning devices for the Outlying Oahu Region, the area generally extending from west of Liliha Street, Ewa to Kaena, north to Kahuku and along the entire windward side to Waimanalo. The branch also receives, reviews, and resolves queries from the public regarding the operation of vehicle, pedestrian, and bicycle traffic on streets and facilities; conducts data collection studies for input into management systems; establishes and administers the Traffic Code Ordinance requirements to maintain efficient and safe vehicle and bicycle facilities. In addition the branch analyzes and determines warrants for traffic signals and necessary left turn phasing.

#### **Accomplishments:**

- Investigated 613 requests and complaints from individuals, public, and private organizations, businesses, and government agencies.
- Conducted 81 maintenance investigations to ensure high quality of traffic control devices.

#### **Completed Work Orders:**

- Installed and upgraded school and pedestrian warning signs at various locations.
- Assisted the Department of Design and Construction in various guardrail installation projects.

- Installed speed limit and “No Parking” signs on various streets island-wide to assist the Honolulu Police Department in their enforcement efforts.
- Assisted the Transportation Planning Division by reviewing and providing comments to submitted Environmental Impact Statements, Draft Environmental Assessments, etc.
- Legalized various traffic controls on various streets island-wide.
- Provided comments to the Department of Budget and Fiscal Services regarding the need for roadway purposes of various City owned properties considered for disposition.
- Assisted the Department of Environmental Services in restricting parking at various locations including Lakeview Circle and Hihio Place to facilitate refuse pick up.
- Assisted the Department of Design and Construction, MEDE Division to relocate signs to newly installed utility poles at various locations.
- Conducted warrant evaluations for all-way stops at various locations including Kealia Drive and Aupuni Street, Keolu Drive and Akaakaawa streets, Lanikuhana Avenue and Makaimoimo Street, etc.
- Conducted warrant evaluations for traffic signals at various locations including Haleiwa Road and Kamehameha Highway, Waialua Beach Road and Goodale Avenue, California and Nanea avenues, etc.
- Installed traffic improvements at various locations including Hekaha Street, Kamehameha Highway, Aiea Heights Drive. etc.
- Conducted traffic operations studies for school areas including Holomua Elementary School, Mililani Waena Elementary School, Waialele Elementary School, etc.

#### **Assisted the Corporation Counsel:**

- Keaunui Drive/Iroquois Point Road - Claims for Cardeno 1/9/06
- Kupuohi Street/Polina Place - Civil No. 04-1-1391 Thompson/Akana
- FILIMOEHALA et al... vs. C&C Civil 04-1-1880-10 KSSA
- Claim of Bruce K. Fukumitsu
- Claim of Benjamin Cayetano, Jr. against City
- Claims-Dena Ackerman for Nathan Curry against City 9/21/05
- Waikalua Road between Halemuku Street and Iakopo Place guardrail
- Claims-Farrington Highway near HECO Kahe Power Plant
- Claims-Edward Dunn v. DOT, Civil 04-1-1330-07
- Claims-Likeli Highway Civil No. 04-1-1880-10 (KSSA)
- Anthony Royce V. Miles Tomisato, et al. Civil # 06-1-0297-02
- Deborah Chargualaf v Gentry-Pacific LTD. Civil #06-1-0836-05

#### **Reviewed Project/Traffic Control Plans:**

- Rehabilitation of Streets Unit 42
- Malulani Street Water System Improvements
- Rehabilitation of Streets Unit 45
- Traffic Improvements at Various Locations – Wahiawa
- Ho’olu Landing Cluster Development
- Waimalu Sewer Rehabilitation
- Papipi Road Improvements - Traffic Control Plan
- Rehabilitation of Streets - Lanikuhana Avenue Striping Plans
- Kailua Road and Kuulei Road, Rehabilitation of Streets

#### **Traffic Safety and Alternate Modes Branch**

This branch provides traffic engineering and design support for the safe and efficient operation of streets and intersections by planning, coordinating and implementing traffic calming projects, traffic improvement projects and bikeway projects. It also administers the City’s bikeway, pedestrian, and traffic safety and education programs.

#### **Accomplishments:**

- Constructed:
  - WCEAR – Nanakulu Makai II
  - Ala Oli/Haloa Roundabout



- KCC Bike Staging Station
- Kamehameha Highway Safety Improvements
- Young Street Park Boulevard
- Lanikai Triangle Park
- Wahiawa Traffic Calming
- Ala Aolani Street Traffic Calming
- Under construction:
  - WCEAR – Helelua Place Extension
  - WCEAR – Paakea Road
  - Lualualei Homestead Road/Leihoku Street Improvements
  - Kaonohi Street/Moanalua Road Intersection Improvements
  - Moanalua Road/Kuala Road/Waimano Home Road Intersection Improvements
- Under planning/design:
  - WCEAR Kaulawahi Road Extension I and II
  - Kaahele Street Restriping
  - Pauoa Road/Nuuanu Avenue Intersection Improvements
  - Kipapa Drive Bulbout Modification
  - Kaluanui Road Re-striping
- Award design contracts to:
  - Engineers Surveyors Hawaii
  - R.M. Towill Corp.
  - LIMTIACO & Associates
  - Parsons Brinkerhoff
- Served as secretariat for the Mayor’s Advisory Committee on Bicycling; monthly meetings serve to advise DTS and the Mayor on bicycling matters. The committee also serves as a clearinghouse between the City, the State bicycle coordinator, the State Department of Health physical activity advocate, and the Hawaii Bicycling League.
- Purchased and distributed various bicycle safety education materials to the public, including bicycle rental agencies in Waikiki.
- Conducted four bicycle traffic safety-training sessions with new TheBus drivers joining Oahu Transit Services
- Purchased, relocated, replaced and/or installed 15 bike racks.
- Served as Grant manager for the Hawaii Bicycling League’s Bike Ed Program for fourth graders.
- Distributed “hot dots” and safety brochures for the “Spot the Dot” pedestrian safety program for Halloween in conjunction with the Honolulu Police Department and the Department of Education via Oahu schools and the City and County Satellite City Hall Division.
- Continued support in commercial driver’s training and education (the Oahu Fleet Safety Organization).
- Public education media campaign called “Walk Wise Kupuna,” geared to senior pedestrians; radio Public Service Announcements, safety presentations, promotional items and printed safety materials. Partnered with HPD, SDOT, and The LIMTIACO Company.

## **TRAFFIC SIGNALS & TECHNOLOGY DIVISION**

The Traffic Signal and Technology Division (TST) develops, implements, operates, and maintains the safe and efficient operations of over 782 state and city traffic signals on Oahu. In addition, the division administers, inspects, and establishes roadway traffic controls for construction activities, parades, block parties, and First Amendment events that occur on city streets. The division is responsible for the Honolulu’s high tech Traffic Management Center and implementation of Intelligent Transportation Systems (ITS), a program that improves traffic mobility by employing technology to improve the efficiency of the existing highways.

The division participates in the many elements of ITS, which include traffic signal control, freeway management, incident management, traveler information, and transit management systems. For traffic signal control, the center analyzes and optimizes the traffic signal operations and coordinates traffic signals to improve progression for commuters and transit services. Another important function is determining and programming the safe and reasonable crossing times for pedestrians.

For emergency services, the division installs, operates, and maintains the emergency pre-emption systems. Emergency pre-emption systems expedite fire and ambulance vehicles saving critical minutes in travel times and minimizing conflicts by holding the green signal at signalized intersections. The requested right-of-way limits conflicts with other vehicles and

pedestrians, and clears downstream congestion, which may impede its response times. For freeway and incident management, the division installs, operates and maintains the 143 traffic-monitoring cameras located at critical traffic intersections and freeway locations to improve traffic signal progression and monitor highway conditions on alternative streets. For traveler information, another ITS element, in partnership with local television stations, local radio stations and a website, the division promotes and provides traffic information informing commuters about the latest traffic conditions.

For transit management, the division is reviewing transit priority technology that favors transit buses at signalized intersections.

### Administrative Services

Division Administration is responsible for effective and efficient management and administration of the division. It establishes the division's policies, goals and objectives, and measures, and promotes customer service. Administration also develops cost effective methods and results oriented programs, and reviews streamlining of tasks. At the same time, it establishes a professional level of services, responses and actions to be accomplished in a timely and satisfactory manner. Administration meets with the staff to consult, develop, and formulate accurate, accountable and responsible policies and procedures to improve the division's initiatives, quality, professionalism, and responses in order to offer the very best in customer services.



### Traffic Technology Branch

This branch is responsible for the engineering and design functions of the division. Professional and appropriate planning and designing tasks are its primary responsibilities ensuring the safest and most efficient traffic signal systems for commuters, pedestrians, and bicyclists. Another important function of the branch is providing and meeting the Americans with Disabilities Act (ADA) requirements at traffic signal locations. These include special ADA pedestrian push buttons and audible pedestrian signals. The branch researches, investigates and implements ITS applications, which employ advanced technology to produce higher traffic flow efficiency. The branch administers advanced traveler information through the Internet, providing commuter access to real time traffic conditions.

This branch is also responsible for the expansion of the traffic video camera program that will phase-in complete coverage on the major highways on Oahu. In order to implement projects, the branch develops, designs, and promotes traffic signal programs that are funded with federal funds.

All traffic signals at city or state intersections are designed or reviewed by this branch, which has the final responsibility for the safety and efficiency of the operations. The cost to modernize and upgrade many of the existing traffic signal systems has been paid by federal funds pursued by this branch, reducing the need of city CIP funds. As part of safety and to lower maintenance cost, the branch evaluates and specifies high tech, faultless equipment and energy-saving devices. As an example, light emitting diode (LED) traffic and countdown pedestrian signals, which save more than 75 percent on energy costs than conventional incandescent bulb traffic signals, have become the standard for new traffic signal systems installation.



*Relocated  
signal to  
comply with  
ADA  
requirements.*



### Accomplishments:

- Traffic Signals at Various Locations Project - installing five new traffic signals and upgraded two signalized intersections.
- Installing fiber optic cable to increase bandwidth to add additional traffic cameras
- Connected the City's Traffic Management Center with State's H-3 Tunnel Management Center via fiber optic cable.

- Eight additional traffic cameras installed.
- Reviewed and re-engineered about 1,100 construction plans.
- Assisted the Traffic Signal Branch in improved maintenance techniques and testing methods leading to a more dependable operational system.
- Assisted the Traffic Control Center with improved traffic optimized algorithms, communication and detection technology for more efficient signal operations.

### Traffic Control Center Branch

The Traffic Management Center is responsible for the efficient, effective, and safe operation of the 782 traffic signals on Oahu. The division concentrates on reducing unnecessary delays by optimizing traffic signal timings, and reviews the safety measures and concerns from commuters and pedestrians. Efficient traffic signal operations are established through field inspections and analysis, travel time studies, and traffic video monitoring. The operational timing plans are frequently reviewed especially during the morning and afternoon peak hours when congestion levels are at the highest. The center utilizes its 143 traffic cameras to provide real time traffic information. The system is an invaluable tool to analyze, select, and mitigate traffic congestion. The center will intervene and compensate by implementing special timing plans to ease the related congestion.

Related to traffic control, the branch issues street usage permits required for any construction or special events that restrict or block any city roadways. The street usage section is responsible for enforcing the Traffic Code, motorcades, parades, house moving, and other nonconforming uses of streets. When travel lanes are reduced, the roadway capacity follows. For special events such as parades or block parties, the branch works with HPD and State DOT to determine the best and safest traffic controls and favorable alternative routes.

The center partners with the Department of Information Technology (DIT) to develop the traffic camera web page, which displays real-time pictures to keep commuters informed about local traffic conditions. The web site has become one of Hawaii's most popular addresses. Currently, work is continuing to broadcast live traffic videos on the Internet. During peak hours, live traffic videos from the center link to the local television stations, and traffic reporters from various radio stations transmit traffic reports from the Traffic Center to assist Oahu commuters to better plan their schedules. To provide the City with an extensive communication network, the branch designs, integrates, and expands its fiber optic and traffic signal communication system from Hawaii Kai to Waipahu. The communication channels and bandwidth of the fiber optic system not only serve the Traffic Center but also can support the future digital data needs of other city departments such as the Department of Information and Technology. The branch is currently working on plans to expand the traffic camera system to the windward side of the island.

### Accomplishments:

- Broadcasting radio traffic reports from the Traffic Center
- Investigated and responded to over 620 traffic concerns
- Adjusted 286 traffic signal operations



*City's Traffic Management Center.*



*Special event lane closure in downtown.*



*ITS Traveler Information web page.*



- Traffic control for various first amendment marches
- Traffic control for Kamehameha Day Floral Parade, Honolulu Triathlon, Aloha Festival Floral Parade, Honolulu Marathon
- Reviewed and issued 4,864 street usage permits
- Reviewed and issued 121 parade/block party permits
- Reviewed and issued 232 oversize/overweight permits
- Reviewed and issued 95 bike/run permits
- Assisted the Traffic Signal Branch in malfunction diagnostics
- Assisted the Traffic Technology Branch in the improved design and operational functionality of applicable technology and the testing of new systems



**TRAFFIC SIGNAL ELECTRICIAN**  
*Repairing a signal light.*

### **Traffic Signals Branch**

The branch is responsible for maintaining the 782 state and city traffic signals. When malfunctions occur, the branch responds immediately to repair operations and minimize congestion so that traffic safety can be restored quickly. Traffic signal maintenance, adjustment, and modification capabilities of the branch are available 24 hours a day, seven days a week. The branch usually responds to any critical malfunctions within an hour. Most malfunctions are corrected within a two-hour span. The branch does interim traffic timing adjustments at trouble spots to quickly resolve traffic issues. For new traffic signal infrastructure needs, the branch does construction improvements. The in-house ability saves considerable and substantial outside contractual costs and delays. This branch maintains the extensive fiber optic and communication cable system, which spreads from the Traffic Center throughout the city. For state and city construction projects involving traffic signals, the branch inspects the projects to insure operations are safe and equipment is installed in accordance with local

codes and standards. The branch does the inspection management for the construction activities designed by the Traffic Technology Branch. This branch continues to improve the technology of the traffic signal systems and maintain efficient and safe traffic signal operations.

The traffic signal branch also assists the neighbor islands in training personnel for the maintenance and repair of the signal system. During emergencies, the branch supplies signal equipment and repairs malfunctioning signal equipment for the neighbor islands.

### **Accomplishments:**

- Responded and repaired 5,942 traffic signal malfunctions and operational reports
- Field inspected and interim adjustments of signal operations for 187 intersections
- Assisted the Traffic Control Branch with operational functions and safety requirements at 80 intersections
- Assisted the design technology branch in the revised design and plans of 45 intersections
- Assisted the Traffic Control Center with the operations of the traffic cameras and the maintenance of the fiber optic systems
- Inspected and supervised installation of related traffic signal work for 191 construction projects
- Assisted in evaluating new pedestrian and traffic signal equipment

### **PUBLIC TRANSIT DIVISION**

The Public Transit Division (PTD) is responsible for oversight of the contractor that manages and operates the City's public transit system, including both the fixed route system (TheBus) and the paratransit system (TheHandi-Van). Included in the oversight responsibility is transit performance monitoring; identifying service problems; resolving customer complaints; instituting corrective actions; monitoring budget execution; financial and internal control audits, and contracts for the annual performance audit.

## **Administration**

Administers the day-to-day operations of the division, including workload assignments and personnel management. Responsibilities include ensuring timely completion of all division projects and promotion of community relations relative to the community's public transit needs.

### **Activities for Fiscal Year 2006:**

- National Transit Database: In order to continue receiving Federal Transit Administration (FTA) funds, the city must annually submit reports to the National Transit Database. These reports include financial and operational activities.
- Enterprise Fund Financial Statements: PTD completed the financial statements for the fiscal year.
- Monthly Bus Pass Subsidy Program: 96 applications processed.
- Middle Street Intermodal Center: Phase I – Construction of the Handi-Van Administration and Maintenance Building is underway. The Handi-Van has moved its base of operations from Kalihi Shopping Center to the Middle Street site. Design and construction of the remainder of The Handi-Van parking lot, the transit platform and passenger waiting area, and the parking garage slated for Phase II.
- Bus Radio Replacement Project: The Siemens ATC system for TheBus is operational. New radios installed in The Handi-Van vehicles.
- FY2006 FTA Triennial Review conducted: Follow-up will be in FY2007.

## **Fixed Route Operations Branch**

Provides and promotes the most efficient, responsive, and cost-effective transit services to the public through contract monitoring, operations administration, and public education and information programs:

- To administer the day-to-day operations of TheBus through performance monitoring, policy guidance, and direction of TheBus services contractor in methods and practices to deliver the most effective transit services to the public.
- To promote transit ridership by providing guidance for the production of informative and attractive brochures, maps and timetables; to provide information services including administration of the guide-a-ride bus stop information program; to provide telephone and written responses to inquiries, suggestions, complaints, and commendations received from individual citizens, elected officials, Neighborhood Boards, special interest groups, and community and government organizations.
- To oversee progress toward compliance with the Americans with Disabilities Act (ADA) with regard to bus operations, bus stop design and installation, and policies and practices of TheBus services contractor.
- To coordinate construction and street usage projects for city and state agencies affecting TheBus operations with the needs of TheBus passengers, traffic safety, and design policies.
- To administer TheBus interior advertising program; this provides revenue to the city through the sale of advertising space within the transit coaches.

### **Activities for Fiscal Year 2006:**

- Patronage of TheBus totaled 65,844,396 passenger trips in FY 2006 compared to 62,959,301 in FY 2005. TheBus operated an estimated total of 1,484,505 bus hours in FY 2006.
- In conjunction with TheBus service contractor, the following programs were continued during this period:
  - Mobile Watch with HPD
  - School/Bus Facility Visitation Program
  - TheBus timetables available to the public at all Satellite City Halls and on TheBus website
  - Transit Employee Appreciation Day
  - City Christmas Lights parade
  - Great Aloha Run Health and Fitness Expo
  - TheBus provided special services for the Mayor's Memorial Day Service at Punchbowl, Easter Sunrise Service, Great Aloha Run, Veteran's Day Service, Aloha Stadium Football Express for all UH home games, and the Pro Bowl football game.
  - Bus Stop Realignment Program: A review of city bus stop spacing was started. In the absence of signalized pedestrian crossings, mid-block bus stops are not desirable. A total of 518 mid-block or too-closely spaced bus stops were identified and after review, 50 stops have been removed and 14 new stops have been created.

## **Facilities and Equipment Branch**

The major functions of this branch are to support TheBus and TheHandi-Van service by 1) providing bus facilities and equipment needs to maintain and operate our fleet of 650 transit buses, and 2) to maintain and improve over 4,000 bus stops island-wide for the convenience of our bus riders. Responsibilities include preparation of bid documents and admin-

istration of contracts for projects such as procurement of new replacement buses; construction and maintenance of bus yards, transit centers, communication systems, ADA bus stop improvements, bus bays and pads, bus shelters, benches, and other related projects. Other administrative duties include responding to graffiti and litter complaints at bus stops, investigation of personal injury claims, coordination of volunteers for public service projects, and assistance to other city and state agencies when requested.

#### Activities for Fiscal Year 2006:

- New Bus Procurement: During the fiscal year 40 fixed route and 32 Handi-Van vehicles were procured and production of both orders commenced.
  - The new buses are outfitted with state-of-the-art technology, i.e., automated vehicle location system, automated bus stop announcement, automatic passenger counters, computer-aided-bus communication system, mechanical and emergency alarms, low floor for ease of boarding and alighting, and hybrid electric powered for clean air environment and energy conservation.
- Construction and Other Contracts Administered:
  - Mililani Transit Center - Construction contract executed. Completion expected July 2007.
  - Waianae Transit Center - Construction contract executed. Completion expected April 2007.
  - Kalihi-Palama Bus Facility Improvements – The contract for restoration of the running repair maintenance shop roof went out for bid.
  - Bus Stop Site Improvements:
    - ◇ Design-Build Bus Shelters and Site Improvements, Increment 5A: 40 new shelters installed in 2006.
    - ◇ ADA Bus Stop Accessibility Project Phase two of the bus stop accessibility plan is currently under design.
    - ◇ Purchased 32 new benches.
    - ◇ Bus Pad at Various Locations (six sites) – Design was completed and construction commenced.
    - ◇ Bus Re-powering – The components required to accomplish the re-powering of 12 articulated buses were procured during the fiscal year and delivery commenced.
- Other Related Support Services – Maintenance:
  - Contracted daily custodial services at Waipahu and Kapolei Transit Centers to clean restrooms, litter and graffiti control, and landscape maintenance.
  - Contracted security services for Waipahu and Kapolei Transit Centers.
  - Contracted for monthly pressure washing to clean certain bus stops.
  - Continuing war against graffiti with full-time work crew to continually maintain over 1,000 bus shelters.
  - Coordinated volunteer groups and provided materials for graffiti cleanup campaigns.

#### TheHandi-Van Operations Branch

TheHandi-Van Operations Branch is responsible for planning and implementing an island-wide public transit service for the elderly and persons with disabilities, including monitoring contractor performance, establishing policies for TheHandi-Van services operation, and monitoring budget execution. This branch is also responsible for establishing a program to conduct a continuous transport needs assessment, training persons with disabilities to use the fixed route system, and conducting the TheHandi-Van eligibility determination process, under the criteria established by the ADA. Also included in the responsibilities is a community outreach program to maintain contact with various agencies supporting the disabled community. The branch monitors all complaints received regarding the TheHandi-Van system and takes corrective action where appropriate. The branch maintains daily contact with the contractor operating TheHandi-Van system and monitors operating statistics and fleet availability.

#### Activities for Fiscal Year 2005-2006:

- Processed ADA TheHandi-Van eligibility applications and Person with a Disability bus pass applications:

	<b>FY06</b>	<b>FY05</b>
- ADA TheHandi-Van Eligibility Applications: .....	4,274	4,930
Conditional eligibility granted: .....	3,349	3,645
Unconditional eligibility granted: .....	763	981
Denied: .....	158	274
- New In-Person Assessment Applicants .....	340	480
Conditional eligibility granted: .....	221	343
Unconditional eligibility granted: .....	62	54
Denied: .....	12	35
Applicant cancelled: .....	45	48

- Number of TheHandi-Van service incidents, letters of misconduct warning and suspension, no-show suspension, and appeal hearings conducted:

	<u>FY06</u>	<u>FY05</u>
Incidents .....	106	45
Misconduct warnings issued .....	4	63
Misconduct suspension of service issued .....	9	14
No-Show suspension of service issued .....	31	13
Appeal hearings conducted .....	21	42

- The Committee on Accessible Transportation (CAT): CAT provides counsel and advice to the director of the Department of Transportation Services concerning the transportation goals and objectives for the elderly and persons with disabilities. In addition to reviewing monthly service reports, the CAT reviews policies and procedures regarding TheHandi-Van and TheBus services.
- Instructor Bus Passes. Issued instructor bus passes to schools and agencies that train disabled students and clients to use the fixed route service.

	<u>FY06</u>	<u>FY05</u>
Trips Taken: .....	18,000+	6,000+
Instructor Passes issued: .....	406	269

- Paratransit Service Study initiated: This will be a comprehensive study of the City's TheHandi-Van service.